

1/6

1 tggtgtgtcccttgcctcgcgaacggtgtgattgtttcatgacattaatctacgtgc  
1 Met Thr Leu Ile Tyr Val  
61 ctccaatattacaatgggtccctcaatcacacggattgtactgggtaacattctgttgg  
7 Pro Ser Ile Phe Thr Met Val Pro Ser Ile Thr Arg Ile Val Leu Val Asn Ile Leu Leu  
121 cgacgttgggttttgggagctgcagtccttcacagagacaacagaactgtttgcgggagtc  
27 Ala Thr Leu Val Leu Gly Ala Ala Val Leu Pro Arg Asp Asn Arg Thr Val Cys Gly Ser  
181 aactctgcacatgggtggcagactccggcgagataaacaccgggtactcctgtacaggcag  
47 Gln Leu Cys Thr Trp Trp His Asp Ser Gly Glu Ile Asn Thr Gly Thr Pro Val Gln Ala  
241 gaaacgttcgacaatcccgaagttactctgtccatgtgagcctggcagaccgtaaccaat  
67 Gly Asn Val Arg Gln Ser Arg Lys Tyr Ser Val His Val Ser Leu Ala Asp Arg Asn Gln  
301 tctacgactcttctgtatatgaatcgatacctaggaacggcaatggcagaattttattctc  
87 Phe Tyr Asp Ser Phe Val Tyr Glu Ser Ile Pro Arg Asn Gly Asn Gly Arg Ile Tyr Ser  
361 ccaccgacccacctaacagcaatacattgaatagtagcattgacgacgggtatatacaatcg  
107 Pro Thr Asp Pro Pro Asn Ser Asn Thr Leu Asn Ser Ser Ile Asp Asp Gly Ile Ser Ile  
421 aaccatctctcggcatcaacatggccttgggtccagttcgaatatagacgagatgtcgaca  
127 Glu Pro Ser Leu Gly Ile Asn Met Ala Trp Ser Gln Phe Glu Tyr Arg Arg Asp Val Asp  
481 ttaagattactacaatcgatggctcaatattggatggcccttggacattgttattcggc  
147 Ile Lys Ile Thr Thr Ile Asp Gly Ser Ile Leu Asp Gly Pro Leu Asp Ile Val Ile Arg  
541 cgacttctgttaagtactcagtcaaaagatgtgtgggtgtatcattattagagtcctt  
167 Pro Thr Ser Val Lys Tyr Ser Val Lys Arg Cys Val Gly Gly Ile Ile Ile Arg Val Pro  
601 atgatcccaatgggtcgaaaattctctgtttagttaagagtgacctttacagttacctct  
187 Tyr Asp Pro Asn Gly Arg Lys Phe Ser Val Glu Leu Lys Ser Asp Leu Tyr Ser Tyr Leu  
661 ccgacggttcgcaatatgtgacctctggaggagcgtggttgggtgtggagccaaaaaatg  
207 Ser Asp Gly Ser Gln Tyr Val Thr Ser Gly Gly Ser Val Val Gly Val Glu Pro Lys Asn  
721 ccctggtgatcttggcagcccttcttggccagggatattggttctcatatgacaccac  
227 Ala Leu Val Ile Phe Ala Ser Pro Phe Leu Pro Arg Asp Met Val Pro His Met Thr Pro  
781 acgacaccagacaatgaagccgggcccgaatcaataatggggactgggggtcaaagccta  
247 His Asp Thr Gln Thr Met Lys Pro Gly Pro Ile Asn Asn Gly Asp Trp Gly Ser Lys Pro  
841 tactctacttcccgcttggcgtatactggatgaacgaggatacctctggttaaccccgga  
267 Ile Leu Tyr Phe Pro Pro Gly Val Tyr Trp Met Asn Glu Asp Thr Ser Gly Asn Pro Gly  
901 agctcggctcaaatcatatgcggctggatcccaatacctactgggtccatctagccccag  
287 Lys Leu Gly Ser Asn His Met Arg Leu Asp Pro Asn Thr Tyr Trp Val His Leu Ala Pro  
961 gagcctatgtgaaaggagccattgagtatttcacgaagcaaaatttctatgcaacgggtc  
307 Gly Ala Tyr Val Lys Gly Ala Ile Glu Tyr Phe Thr Lys Gln Asn Phe Tyr Ala Thr Gly  
1021 atggcgcttctcaggtgagaactatgtttatcaggccaatgcagctgataactactatg  
327 His Gly Val Leu Ser Gly Glu Asn Tyr Val Tyr Gln Ala Asn Ala Ala Asp Asn Tyr Tyr  
1081 ccgtcaagagtgatggcacaagccttgagaatgtggtggcacaacaaccttggaggcggtc  
347 Ala Val Lys Ser Asp Gly Thr Ser Leu Arg Met Trp Trp His Asn Asn Leu Gly Gly Gly  
1141 aaacatgggttttgcattggggccaccattaatgcaccgcccgtttaatacgtatggactca  
367 Gln Thr Trp Phe Cys Met Gly Pro Thr Ile Asn Ala Pro Pro Phe Asn Thr Met Asp Phe  
1201 acggaaactctaattttccagccggattagtactataagcaggttggcgcttatttt  
387 Asn Gly Asn Ser Asn Ile Ser Ser Arg Ile Ser Asp Tyr Lys Gln Val Gly Ala Tyr Phe  
1261 tccaacagacggaccggagatctacgaggacagtgtgtccatgacgttcttctggcatg  
407 Phe Gln Thr Asp Gly Pro Glu Ile Tyr Glu Asp Ser Val Val His Asp Val Phe Thr His  
1321 ttaatgatgatgccatcaagacatatttccggagcttcaatttcacgagcaaccatct

FIG. 1a

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427 Val Asn Asp Asp Ala Ile Lys Thr Tyr Tyr Ser Gly Ala Ser Ile Ser Arg Ala Thr Ile  
1381 ggaagtgtcacaatgacccgatcacagatgggctggacgtcacgaaatctcaccggaa  
447 Trp Lys Cys His Asn Asp Pro Ile Ile Gln Met Gly Trp Thr Ser Arg Asn Leu Thr Gly  
1441 tcagcattgataacctgcacgtcatccacacgagatatttcaaactctgaaacagtgggtc  
467 Ile Ser Ile Asp Asn Leu His Val Ile His Thr Arg Tyr Phe Lys Ser Glu Thr Val Val  
1501 cttcagcaatcattggagcgtctccattctacgcaagtggaaatgactgttgatcccagcg  
487 Pro Ser Ala Ile Ile Gly Ala Ser Pro Phe Tyr Ala Ser Gly Met Thr Val Asp Pro Ser  
1561 agtccatcagcatgaccatctctaactgggtgtgtgagggtctatgcccctcactgttcc  
507 Glu Ser Ile Ser Met Thr Ile Ser Asn Val Val Cys Glu Gly Leu Cys Pro Ser Leu Phe  
1621 gtatcactccgcttcagagctacaacaaccttgttgtaagaacgtggccttcccgatg  
527 Arg Ile Thr Pro Leu Gln Ser Tyr Asn Asn Leu Val Val Lys Asn Val Ala Phe Pro Asp  
1681 gactgcagacaaatccaatcggaataggagagagcattataccagcagcttccggctgta  
547 Gly Leu Gln Thr Asn Pro Ile Gly Ile Gly Glu Ser Ile Ile Pro Ala Ala Ser Gly Cys  
1741 caatggacttggaatcacaaactggaccgtcaaaggacaaaaagtcaccatgcaaaact  
567 Thr Met Asp Leu Glu Ile Thr Asn Trp Thr Val Lys Gly Gln Lys Val Thr Met Gln Asn  
1801 ttcagtccgggtcacttggccagttcgatatcgatgggttcatactgggggtcaatggtcca  
587 Phe Gln Ser Gly Ser Leu Gly Gln Phe Asp Ile Asp Gly Ser Tyr Trp Gly Gln Trp Ser  
1861 taaactaaagctattccattcacctgagtattttcgtgggttcaatgagttctgttac  
607 Ile Asn \*  
1921 tgatggggcccttgctagtggtaaaagtagagggacttgctctcgccgggcgccaaggaa  
1981 gttcattgtcttctagttgaaatagatttgttcttctctcgttaaaaaaaaaaaaaa  
2041 aaaaaaaaaaaaaa 2052

FIG. 1b

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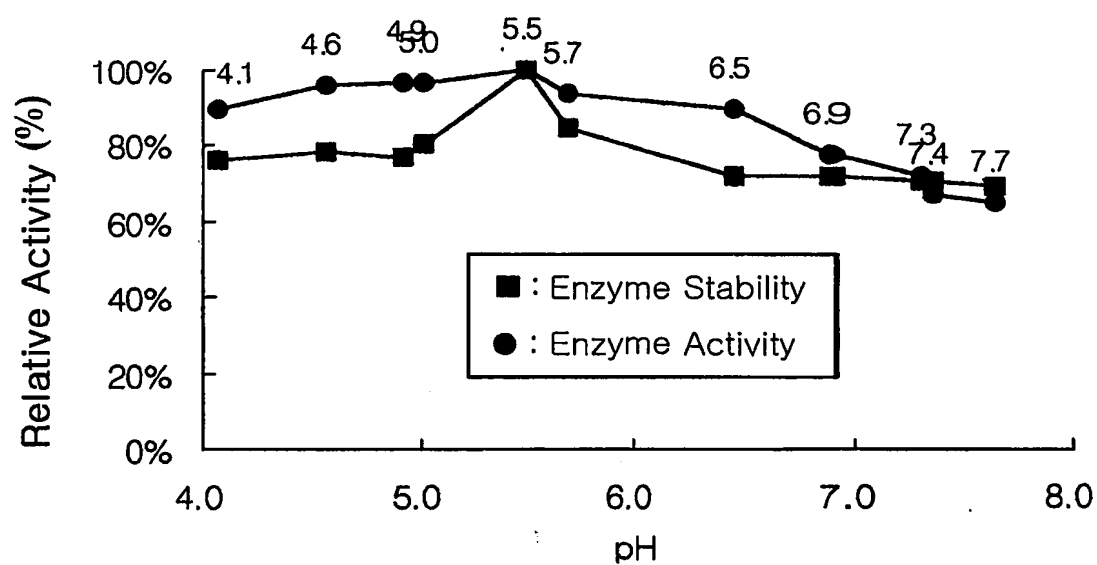


FIG. 2

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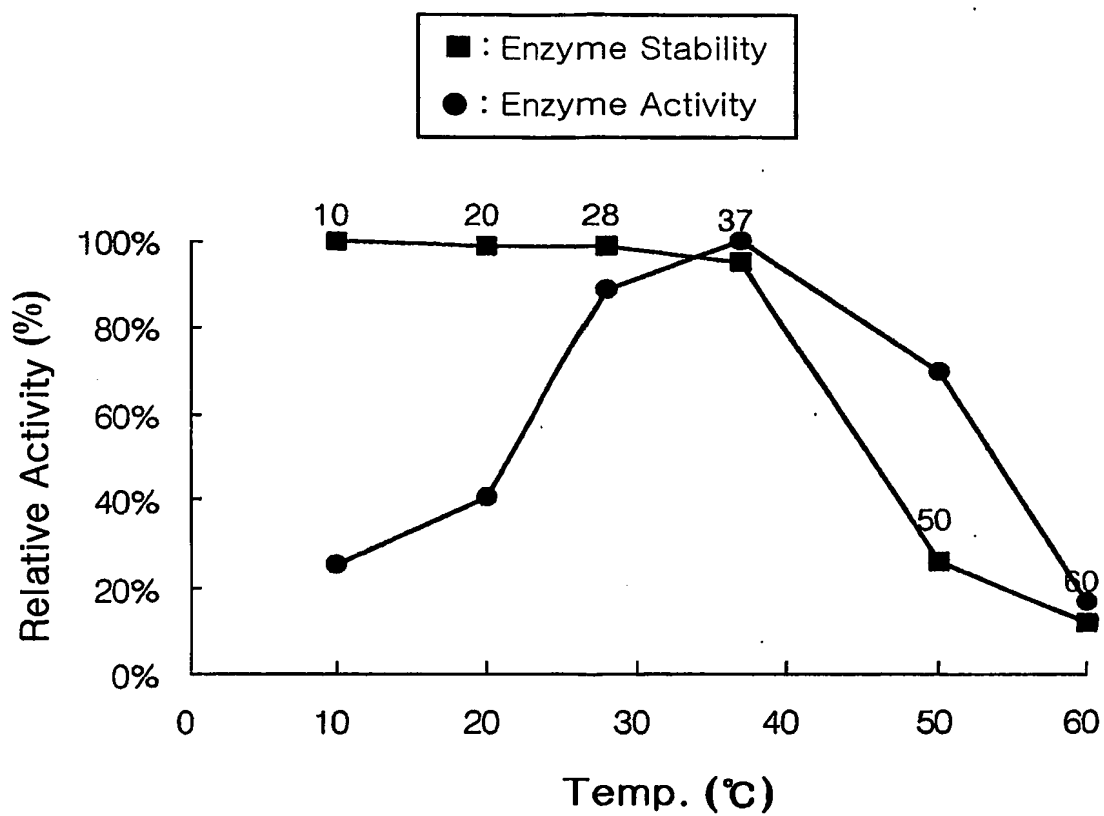


FIG. 3

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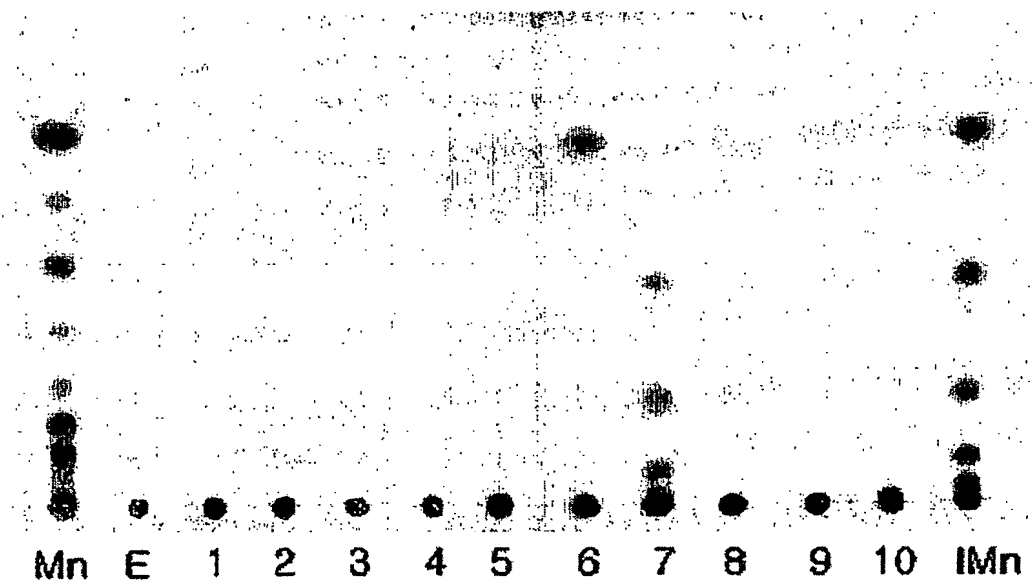


FIG. 4

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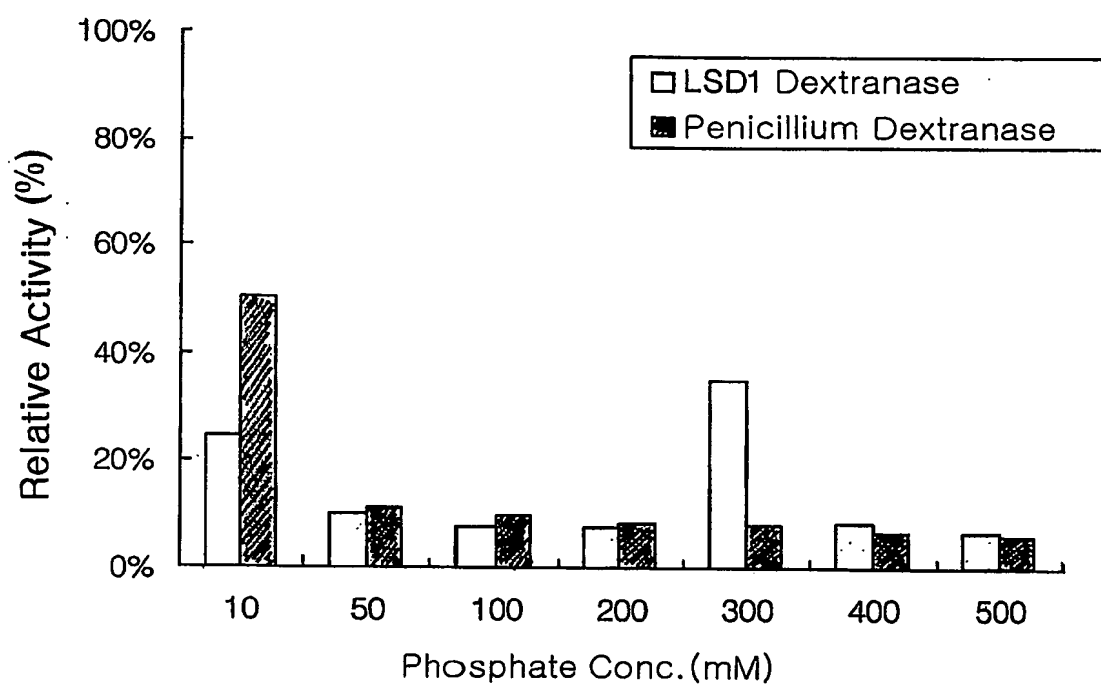


FIG. 5

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